

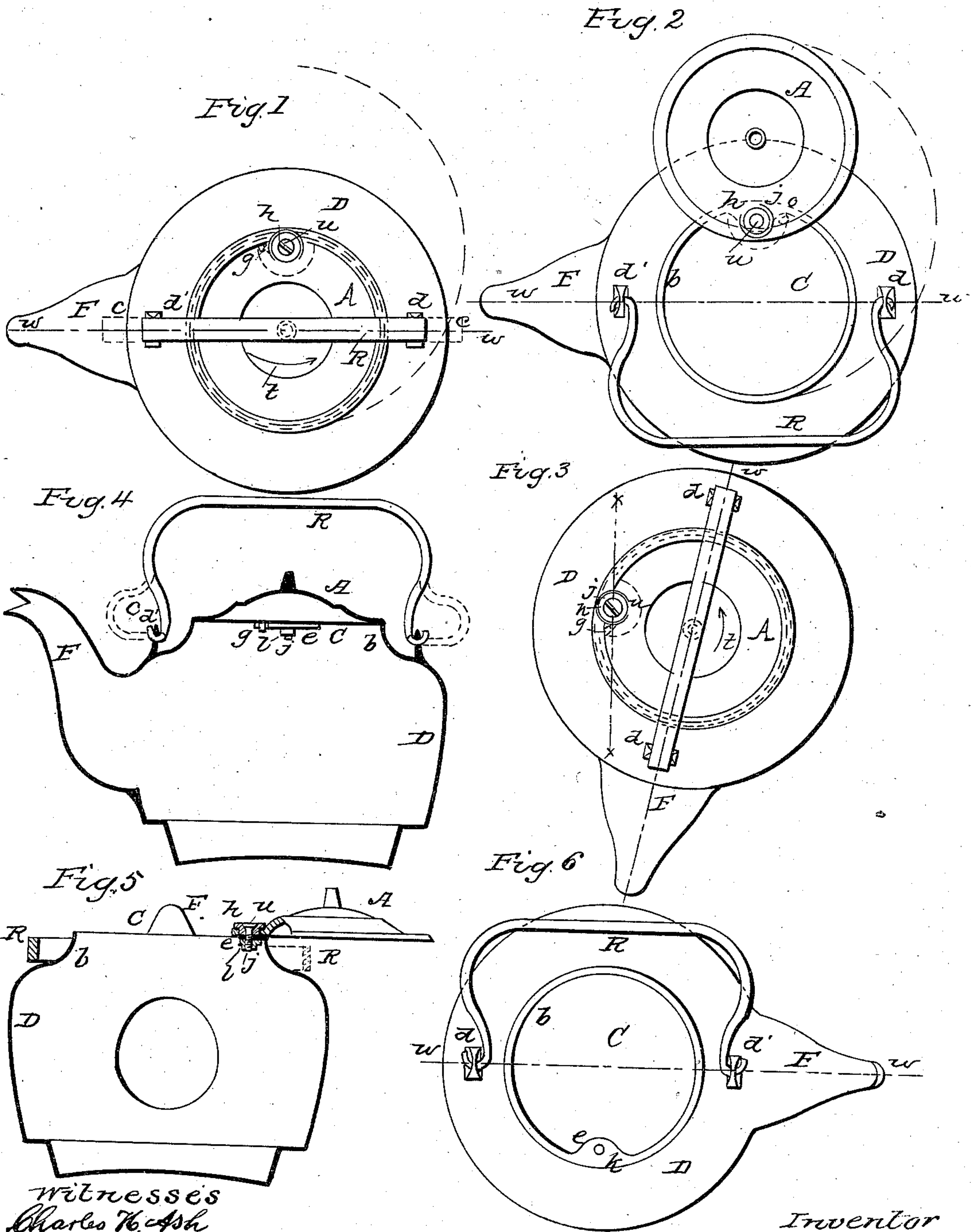
E. RIPLEY.

2 Sheets—Sheet 1.

Hinging Tea Kettle Covers.

No. 66,631.

Patented July 9, 1867.



Witnesses  
Charles H. Ash  
Austin J. Park.

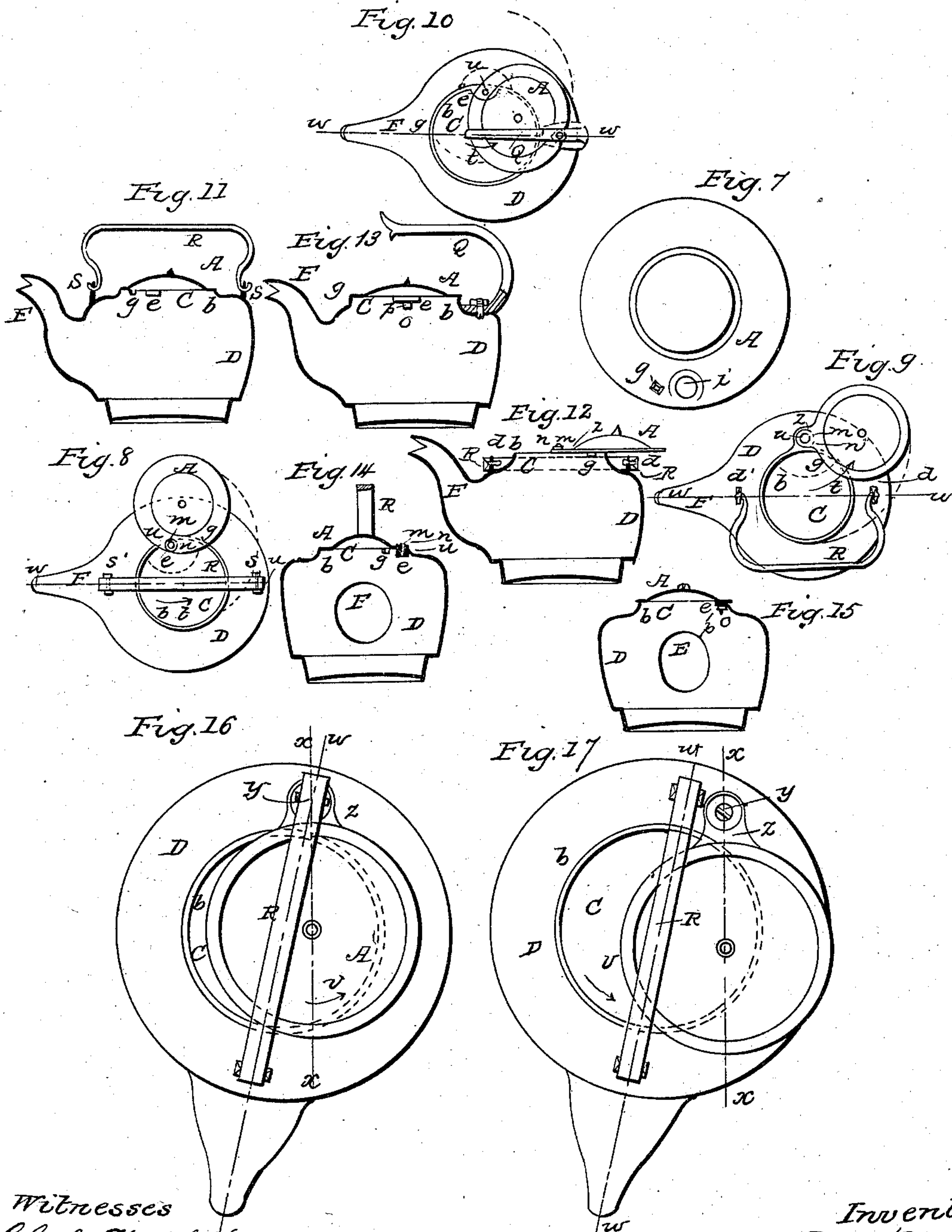
Inventor  
Ezra Ripley

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Witnesses  
Charles H. North  
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# United States Patent Office.

EZRA RIPLEY, OF TROY, NEW YORK.

*Letters Patent No. 66,631, dated July 9, 1867.*

## IMPROVEMENT IN HINGING TEA-KETTLE COVERS.

*The Schedule referred to in these Letters Patent and making part of the same*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, EZRA RIPLEY, of the city of Troy, in the county of Rensselaer, and State of New York, have invented certain new and useful Improvements in Tea-Kettles, that is, in such culinary vessels as have an opening in the top to pour into, a spout at one side to pour out of, and a lifting bail or handle extended or capable of being extended over the top of the vessel; and I do hereby declare that the following is a full and exact description of my said invention, reference being had to the accompanying drawings, in which—

Figures 1, 2, and 3 are plans or top views.

Figure 4, a central longitudinal section.

Figure 5, a central transverse section.

Figure 6, a top view of the body, and

Figure 7, a bottom view of the cover, all of a tea-kettle which embodies all the parts of my invention, as hereinafter specified; and

Figures 8, 9, and 10 are plans,

Figures 11, 12, and 13 central longitudinal sections, and

Figures 14 and 15 transverse sections of three different tea-kettles, each embodying some of the parts of my invention, as hereinafter set forth; and

Figures 16 and 17 are top views of two other tea-kettles which do not embrace any part of my invention, as hereinafter described—

Like parts of all the tea-kettles being marked by the same letters in all the figures.

When a tea-kettle is inclined forward in pouring out water the tea-kettle is liable to be tilted or inclined sideways somewhat, as indicated by figs. 3, 16, and 17, wherein the line  $xx$  represents a perpendicular plane and the line  $ww$  an inclined one; and when, as indicated in fig. 16, the edgewise swinging cover A is pivoted to the tea-kettle in the line  $ww$  of the spout F of the tea-kettle, and provided with a stop, as in some tea-kettles heretofore made, so that the cover can be swung off only in one direction, as indicated by the arrow  $u$ , then in such a tea-kettle the weight or gravity of the cover, when closed, will turn or tend to turn the cover partly off from over the opening in the top of the tea-kettle, so as to let steam escape and burn or scald the hand of a person holding the tea-kettle by its bail, whenever such person, by any inattention in inclining the tea-kettle forward to pour out boiling water, shall make the tea kettle tilt or incline to the side on which the cover is made to swing off, as indicated in fig. 16; and when, as indicated in fig. 17, the edgewise swinging cover A is pivoted to the tea-kettle at one side of the line  $ww$  of the spout F, and provided with a stop, so that the cover, when closed over the whole of the opening in the top of the tea-kettle, can then be swung off only in a circular direction at first forward or toward the spout, as indicated by the arrow  $v$  in fig. 17, then, in such a tea-kettle, the weight or gravity of the cover, when closed, will turn or tend to turn the cover partly off from over the opening in the top of the tea-kettle whenever the tea-kettle shall be inclined directly forward in pouring out water, and much more, as indicated in fig. 17, when the tea-kettle shall happen to tilt or incline to the side on which the cover is made to swing off; and to keep the covers of such tea-kettles from swinging partly off by their own weight when the tea-kettle was inclined in pouring out water the cover has been made with a short lug or low flange on its under side, so that the cover, when closed, is always required to be lifted up before or while being swung off, which lifting up of the cover was a very unhandy and vexatious operation when the tea-kettle was hot. Now, I avoid those defects by one part of my invention, which consists in making a tea-kettle with an edgewise swinging cover so hinged or pivoted at one side of the line of the spout of the tea-kettle, and furnished with a stop, that the cover, when closed over the opening in the top of the tea-kettle can be swung off in a circular direction, at first rearward or away from the spout, and that when the cover is closed and the tea-kettle inclined forward, as in pouring out water, the weight or gravity of the cover then keeps or tends to keep the cover closed or from swinging off at all, even when the tea-kettle is tilted somewhat sideways in either direction. This part of my invention is embodied in each of the four tea-kettles represented by figs. 1, 2, 3, 4, 5, 6, and 7; 8, 11, and 14; 9 and 12; and 10, 13, and 15; wherein A is a cover hinged or pivoted to the body D of the tea-kettle at a point,  $u$ , on one side of the line  $ww$  of the spout, with a stop formed by a lug,  $g$ , fast on the under side of the cover and within the rim  $b$  of the tea-kettle in figs. 1, 2, 3, 4, 7, 11, 8, 14, 12, and 9, and fast on



the rim outside of the cover in figs. 10 and 13, so that the cover, when closed, as in figs. 1, 3, 4, 11, 14, 13, and 15 can then be freely swung off in a direction at first rearward or away from the spout F, as indicated by the arrows *t*, and so that when the tea-kettle is inclined forward the weight of the cover will then press or tend to press the lug *g* of the cover close against the inner side of the rim *b*, as indicated in figs. 1 and 3, or to press the cover against the lug *g* on the rim, as in fig. 13, and thereby keep or tend to keep the cover closed tight or from swinging partly off even when the tea-kettle shall be tilted sideways, as indicated in fig. 3; and in carrying out this part of my invention I pivot or hinge the cover to the tea-kettle at any suitable point on either side of the line of the spout, but generally prefer to hinge or pivot the cover to the kettle at a point as nearly transversely opposite to the centre of the opening in the top of the kettle as shall be practicable. (See figs. 1, 2, 3, 8, 9, and 10.)

In carrying out my invention, I hinge or pivot the cover to the tea-kettle by means of any suitable device or devices; for example, in the tea-kettle represented by figs. 1, 2, 3, 4, 5, 6, and 7, the cover A is hinged to an inwardly projecting part, *e*, of the body D of the tea-kettle by a collar, *h*, fig. 5, extended loosely through and having a head projecting over the rim of a hole, *i*, fig. 7, in the cover, the said collar *h* being fastened to the said part *e* by a screw-bolt, *j*, fig. 5, extended through the said collar and through a hole, *k*, fig. 6, in the said part *e*, and tightened by a screw-nut, *l*, fig. 5; and in the tea-kettle shown by figs. 8, 11, and 14, and in the one represented by figs. 9 and 12, the cover is pivoted to the body of the tea-kettle by having a hole or socket through the cover fitted loosely around a stud, fig. 14, cast on the body of the kettle, with a projecting rivet, *m*, extended through and headed over a collet, *n*, above the said stud and cover; and in the tea-kettle represented by figs. 10, 13, and 15, the cover A is hinged to the body D by a pivot, *o*, fig. 15, cast on the under side of the cover, and extended through and below a hole or socket in an inwardly projecting part, *e*, of the rim *b*, and retained therein by a pin or key, *p*, driven into and extended from a transverse hole through the said pivot *o* under the part *e* of the body of the tea-kettle. And in carrying out the aforesaid part of my invention I make the tea-kettle with either a swinging or a permanently standing lifting bail or handle arranged and attached to the kettle in any suitable manner. Thus, for illustration, the tea-kettle shown by figs. 10, 13, and 15 has a standing handle, Q, arranged and bolted to the body of the kettle on the side opposite to the spout F and in line therewith, and so as to not at all interfere with the swinging off and on of the cover A; and the tea-kettle represented by figs. 8, 11, and 14 has a bail, R, hung in lugs *s s'* cast on the body of the tea-kettle in the line of the spout, and with the rear lug *s* so far from the point *u*, where the cover is hinged to the body of the tea-kettle, that the cover A can be swung off and on inside of the rear bail-lug and when the bail is standing. But in tea-kettles having edgewise swinging covers and swinging bails hinged to lugs in line with the spouts of the kettles, it is not always practicable or generally most desirable to have the rear bail-lug located so far back that the cover can be swung off on the inner side of that lug. And another part of my invention consists in making a tea-kettle with an edgewise swinging cover and a bail hinged to lugs in line, or nearly so, with the spout of the kettle and with the top of the rear bail-lug, so low, in respect to the cover, that the cover can be swung off edgewise over the rear bail-lug. By this part of my invention I am enabled to have the rear bail-lug as near to the opening in the top of the tea-kettle as is generally desirable; and to swing off the cover in a rearward direction without any interference from the rear bail-lug, or from the bail when turned down properly, whatever may be the position of the point where the cover is hinged or pivoted to the tea-kettle. This part of my invention is embodied in the tea-kettle represented by figs. 1, 2, 3, 4, 5, 6, and 7, and in the one shown by figs. 9 and 12, wherein the top of the rear bail-lug *d* is lower than the top of the rim *b*, on which the cover rests and turns, so that the cover can be swung off over the rear bail-lug, when the bail R is turned down, as indicated in figs. 2, 5, 9, and 12; and in carrying out this part of my invention, I sometimes have the lower portions of the bail bent outward, as indicated by the dotted lines at *c* in fig. 4, so that the cover can be swung off over the rear bail-lug when the bail is standing, as well as when it is turned down.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. An edgewise swinging cover hinged or pivoted to a tea-kettle at one side of the line of its spout and furnished with a stop, so that the cover can be swung off in a direction at first rearward or away from the spout, and that the weight or gravity of the cover when closed keeps or tends to keep the cover from swinging partly off, when the tea-kettle is inclined forward and tilted sideways, substantially as herein set forth.

2. I also claim a tea-kettle having an edgewise swinging cover and a bail hinged to lugs in line, or nearly so, with the spout of the tea-kettle, and so constructed that the cover can be swung off over the rear bail-lug, substantially as herein set forth.

In testimony whereof I hereunto set my hand this thirty-first day of March, eighteen hundred and sixty-six.

EZRA RIPLEY.

Witnesses:

CHARLES H. ASH,  
AUSTIN F. PARK.